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TITLE: Means for photographically producing a plurality of assemblages of preselected data

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Jan. 17, 1950 J. V. WECKBAUGH 2,494,599 MEANS FOR PHOTOGRAPHICALLY PRODUCING A PLURALITY OF ASSEMBLAGES OF PRESELECTED DATA Filed July 27, 1946 4 Sheets- Sheet 4  
 F tG. 10. 120 ----- -109 - 55 1 .3 0 1 2. 0 0 @ -- fj C - 1 1 0 .T. DOE@ It- I  
 ILI 711 Oq 70 1 7 00 1 A ,T. DOE. 11-432-3-19 - 4 I-V- j'OHN V015 NOE 14 /019"--  
 FIG . 12. N@WO@-P' I- PEN@4 l@, @TOT, @- ITI -I PAYROLL PERIOD ENDING FI@P-C 1319  
 B.L? 0 E. t2 - - - - - CITY THU5T CO. AUOIT ROF to ANYWHERE U-5-A. 14-DOC-1 70.00  
 14. 00 PAY To THE ORDER OF 110 EXAC TLY FOR PAYROLL ACCOUNT OF )q - 14X. nf6 60.  
 INC, AU7SI C, @ TR65 liz - 137- ' @1.36 80 I FI G.i3 151 ---ulqT6 5p @65 E, 00 50 06  
 -70.00 1 14 00 1 70 700 2 00 @ 46. 3 0 / , F 7 51,00. \_50@ 2 5 , 0 0 . 1 5 0 0 - @  
 6 6 . , 5 0 - - - - - PAYROLL  
 PERIDE) ENT)IN4 7 CITY TRU5-F GO ANYWHERE U.!5. A U,91 7' "12" @AY TO T H E O R 1)  
 E R OF 113 N D O@F EXq,7L Y FOfl PAYROLLACC OUT4TOP 1!@3 TAX. I N V E N T O R . 7 0  
 5 E , - Y V FIG.11. BY A T7-ORNZ-Y

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5 being controlled by a further solenoid 821-- lo,6ated,' in the power circuit 64, through intermediate mechanism to open temporarily said shutter when: the solenoid is energized. The sensitized strips in both instane6s are ifed Intermittently to correspond to new jackets to be photographed and appearing in the respective fields; and, in the case of the photography of a' single jacket, the strip may be taken from a reel, 83 1.3 for en-agement with pairs of projections or' te@ti-, 8 4 of endless chains 8 5 so as to withdraw at. each advance a predetermined length from theroel and present it in the optical system f6r ex-7..' posure when the shutter 8 I is opened. I After exposure, the strip is wound upon a takeup spool 86 connected with the advancing mecha-' nism. 54 by a spring belt and pulley 87 to be driven in synchroilism with the advance of sai-d strip. In the optical system is included a mirror 88 to reproduce the matter as right-readii-ip,, upon the strip 80. @ The advance of the sensitized strip 90 in the pack 30 is effected from the mechanism 52 which comprises a power-driven roll 91 and a cooperating roll 92 movable toward the roll 91 through a manually operable cam roller 93 contacting- therewith. By this expedient, a free end 94 of the piece of sensitized strip, projecting beyond tlie,@ pack casing 30 through a light-sealed openin,94' therein, may be clamped between the rolls 91 and 92 and withdrawn intermittently from the pack when the mechanism is actuated from theGeneva movement 49 to advance the strip through the pack a sli,-ht predetermined amount. In loading the pack (under proper light conditions) with a length of sensitized strip 90, th@ same is provided in a longitudinal slotted carrier 95 having lateral guideways 96 along its innbr edges for supporting the 8trip length, said length being ample to provide for sufficient advance to photograph a predetermined loading of jackets, from the stack element 2 1, as well as to affokd the external sectiop- 94 sufficient to enable the This carrier is mounted, when thus loaded with sensitized strip, into the pack and overlaid with a.. longitudinal cover member 97 having a light-sealing fit therewith; and it is held in position there- pivoted to the top of the pack and operated bv being linked together by bars 99, one along eaci,@@ side. Knobs 100

projecting outwardly from the bars afford convenient means for manipulating, the fingers to lock the carrier in the pack or to unlock it for removal therefrom, as for refilling. The said pack carries, also, at its opposite face the appropriate lenses 31 with apertures which correspond in number to the number of fields provided for group photography of a predetermined number of jackets. The sensitized strip, moreover, is notched along a lateral edge, as at 101, Figs. 4 and II, to accommodate a step 102 extending from the pack into the path of travel of the strip in order to prevent not only excessive withdrawal of a strip in clearing initially the external end thereof, but to limit within the capacity of the strip the number of consecutive exposures thereon. A convenient form of the jacket member 22 is shown in Figs. 7, 8 and 8a, 9, as well as in its loaded form, Fig. 10. As set forth, a nipper piece 107 is provided, with various slots such as the three parallel slots 106, 107 and 108 extending inwardly aligned with the respective said slots 106, 107 and 108. These slots are provided along the upper portion of the plate, corresponding to the stub or detachable portion of a document such as a check to be prepared by the use of a jacket member, as will hereinafter, be more fully set forth. The lower portion of the plate is provided with additional slots 112 and 113 in said strip having lateral perforations 80, Fig. 16 extending inwardly from an edge of the jacket member, as well as with depressions 114 and 115. It will be understood of course, that the various openings in the plate 105 are to be located and dimensioned to suit the particular matter to be reproduced. Such matter is to be provided in any suitable manner upon slips or a card or other inserts, as the inserts 120, 121, 122 and 123 designed to be held behind corresponding openings so that their data or indicia will be visible through a corresponding opening. In the apertures 114 and 115 are to be mounted cards or the like, in the particular embodiment herein set forth by way of example bearing the name of the payee and also a photograph of the payee with facsimile of his signature. In order to maintain such insert elements in their proper location, there is provided behind the plate 105 an intermediate spacer member or plate 125 provided with various recesses 126, or rather, openings to accommodate the insert elements. Plate 125 in turn is backed by a backing plate 127 bearing on its inner surface and directed toward the openings 126, as well as to register therein, spring elements 128 which are designed to contact the unprinted or rear surface of an insert element and to press it over its margin firmly against plate 105 so as to maintain a proper positioning of the various insert elements in the jacket member, as is more clearly indicated in Fig. 8a of the drawings. The said plates may be, secured to one another, for example, by means of a suitable adhesive. After, a jacket member 22 has thus been loaded by inserting from its edges the desired data, strip to be gripped between the rolls 91 and 92. After bearing insert elements for subsequent photography of the particular data, it is ready for insertion into the stack 21 to be advanced therefrom over the platform 25 and finally discharged into the discharge stack 26. During its interim by means of pairs of fingers 98 which are movable to advance over the said platform 25, as, hereinafter set forth, a group of the adjacently disposed jacket members is simultaneously photographed to register upon the sensitized strip 90 the selected portions exposed through the various openings in the top plate 105 of the jacket member. This selection may conveniently be secured by adjusting or offsetting the camera fields of the various optical systems 31. For example, in the first position of a jacket member 60 on the platform, the particular field of photography will be restricted to include only the matter visible through the opening of slot 106 and the aligned opening 109. When this jacket member attains the next position on the platform, not only the matter presented through the opening 107 and aligned opening 110 will be photographed on the subsequent portion of the sensitized strip 90; and when in the third and final position, so far as photography on the strip 90 is concerned, only the matter presented through opening 108 and aligned opening 111 will be photographed, the camera fields having been displaced accordingly for representation of the matter appearing through the openings upon correspondingly from one edge of the plate

and simi@ar:but. @, 75 ing@-, displaced Portions along the said strip 9t.-

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2,494ib00 7 Such displacement is conveniently effected by substituting a different pack, as required. As this strip is intermittently advanced synchronously with the movement of, jackets over the, platform there will be provided on-the, said strip over three different portions thereof a succession of groups of transversely located linear representations (Fig. 11) of the matter presented through openings of consecutively presented jacket members until the limit of the strip portions has been reached. This limit may be secured by engagement finally of the stop piece 102 with the notched edge 101 of said strip. After the succession of linear representations, grouped in the three portions 130, 131 and 132 longitudinally of the strip 90, has been effected, the pack is opened by turning knobs 100 to release member 97 for admitting access to the strip for removal. This strip may then be developed and, if desired, also an enlarged print made therefrom; or, the matter may be projected. In the use of the sensitized strip in the manner hereinbefore described, it will be apparent that an outer or leader portion 133 corresponding in length to the advance of the strip as a whole as well as the portion 94 gripped by the advancing means, is without representations, though exposed, and may have identifying means (not shown) applied thereto, if desired. These waste portions may be constituted, also, of less expensive material than sensitized film and the like. Further short unused portions 134 corresponding to the displacements of the representations in each group result from the fact that exposures must initially be made in all locations as soon as the first jacket member of a succession is positioned in the first stage on the platform 25 and, also, when clearing the platform of active jacket members, for example, by following the same with blanks. In its final or fourth stage of progression over the platform 25, a single jacket member is designed for photography in a further and independent field on the sensitized strip 90, in which case matter displayed through the openings 112 and 113 and retained in the depression 114 and 115 is photographed in addition to the matter displayed through one of the openings 106, 107, displaying like data, and a corresponding one of the openings 108, 109, 110 and 111. The latter matter will be photographed only on a portion of the strip 80 constituting the stub portion 1 and separated from the remainder by a line of perforations 136 or other suitable means to allow of detaching the stub from the remainder of the document which constitutes a bankable check, a receipt or the like. Provision of the consecutive openings 139 and 139 respectively in a jacket member 22 and masking member 137 is positioned in the same over a window 140 of the platform 25 and beneath which is located a counter mechanism 141 of any well known type, the same being operated synchronously with the advance of the jacket member from the intermittently operating Geneva movement and in the rhedialte, rhecha nism 142. In addition to the payable amount photographed on the check and the audit initials which are displayed through the openings 113 and 112 respectively, of the jacket, there is also photographed on said check, for example, the name of the payee and the picture of the payee and his signature, which are displayed at the depressions 114 and 115 of the said Jacket member, to afford thereby a protected check. Other necessary matter to appear on the complete check, such as the matter 136, may be initially printed directly on the masking member 137 which serves also to display for exposure only the desired jacket matter as strip 80 advances into position, said masking member being supported over the platform 25 at the final location 10 of a jacket member and interposed between the latter and the shutter 81 and having only registering openings corresponding to the desired matter to be photographed, as aforesaid. The lateral perforations 801 are, preferably, provided in the stub portion of each photograph and may serve as filling openings for the stub when it is detached from the check portion. A complete check with stub attached and prepared, as hereinbefore described is shown in Fig. 20, the data 107, 109, 110 and 111, 112, 113, 114, 115 and 138 having been derived from the corresponding openings 107, 109, 110 and 111; and 112, 113 and 138, and

depressions i 14 and -i 15 of a jacket member, while the matteit 25 136, was derived derived solely from the mask 137. Thus, the flnal document, photographically prepared on the strip 80 as hereinbefore set forth, com- priseg the check portion 150 and the detachELI@le stiab or vouched portion 151, the former serving @30 as a bankable instrument bearing the usiial matter 1361 and offlcial fa;csimile signature signature 153 and the amount 1:13' to be paid as well as the lileture and facsimile signature II 5' of the payee. These two latter items assure proper identifica- 35 tion and provide safeguards against fraud in cashing of a check. In addition, appropriate check numbers 1381 also appear. In the particular iorm of document herein described by way of example, the amount payable 40 1131 thereon is derived from a computation dis- closed in detail on the stub or voucher portion 15 1. As indicated, this voucher portion may bear one or more lines of indicia or data which may be ranged horizontally and in vertical col- 45 umns. The particular arrangement shown ind'I@ cates three lines lengthwise of the stub, the uppermost one 155 bearing items relative to payroll which are fixed and do not change from pay period to pay period. These items are such as 60 are ass ociated with tinion dues, hospitalization, pension fiind, etc., and are reglilarly deductible. Tha intermediate line 156 bears payi@oll itenis which @vary during each pay period being, for 65 example, it@-ms wi-thheld such ,is withholding tax, old age benefit8, bond paymeilts, etc., and gener-glly computed on a percentage basis. The lowermost lifte 151 bears an accumulation of the columns in the preceding lines provided by carry- 60 ing forward each pay day the amount of the preceding pay day added to the acc- amulated deductions from pay so thit the pa..yee is kept informed of the tot,,il a@-i- iounts paid to him, I>oth gi@oss and -net, and the specific totals of the allo- 65 cated:deductions, each of which is identified by suitabi . e columnar l-leadings. Th-cs, the first coluiiin shows the gross arnount earned and the last column the net amount actually received and be- 70 ing the amount transferred to and indicated upon the check portion The inter@nedi@,te c(>Iumns affo3@d the totals of tho several deductible items. The payee's social security number is indicated at 107', for-oxample in tlie interinediate Iiiie 151 75 %at -dne end.

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